An Essay on Bronchocele Respectfully Tubmitted To the Faculty
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Bronchocele.

The Thyroid gland lies whom the first and second rings of the Tracker and on the sides of the Laryny. Arconsists of two lobes and their connecting band call. ed an isthmus. Sometimes from this isth. mus and most frequently from the left side of it, a small pyramidal process runs up and is attached by ligamenton's files to the Os Hyordes. Morgagni, Mechel and Horner, think its presence is more common than its absence. It is variable in size and length. The whole Thyroid body measures, when extended, about three inches. A rests upon the primitive curoties and internal jugular veins. It is enclosed by

a capsule, which aetheres firmly to it and gives it a polished appearance. Its surface is smooth, uniform and of a dark brown color. Its internal structure seems to consist of lobules firmly connected together, although they are not distinctly marked Except in a diseased condition. These lobules contain many cells filled with a fatty, yellowish fluid. There are two pairs of arteries running to this body; the superior pair arises from the external curotids, the inferior from the subclavian arteries. The veins are also in two sets, the superior either muite immediately with the jugular veins or are thrown down upon the anterior portion of the neck as the gut tural veing and empty themselves into the internal jugular. The inferior descend up.

on the fore part of the Truchea and enter either into the subclavier or internal jugular veins. Anatomists have not yet been able to truce any connection bethem the vesicles of the Thy wiel body or to satisfactorily determine upon the existence of any excretory duct. Some authors suppose that the pyrumielal process performs this function during fetal life, when it seems to be most needed, as it is larger in the fatus than in the breathing being. Whatever may be its functions, it is now generally conceded that, they are intomately connected with the blood and that its secretions are curried off in the circulation. Its office is not the purification of the blood or its secretions would be carried off, as was formerly supprosed, by the

Lympohatics, but our present knowledge of the distribution of these vessels, renders this idea inconsistant. It is now the preve alent belief that all the glands not supplied with ducts, except the spleen, discharge their products into the veing and after possing through the lungs and heart they are distributed to the gener al system through the arterial circulation. Therefore whatever may be taken from the blood by these glands is returned to it again though in an altered constition. It may be inferred from this, that the changes which the blood here undergoes, prepare it for higher uses in the economy. As the blood, which has received their secretions is inmediately tremsmitted to the system after passing through the lungs, it would be

proper to conclude that they serve to maintain the functional activity of the lungs, of the system or of the blood itself. These secretions must therefore be combustible or mutritions. That they are not combustible and destined to form food for respiration, appears from the fact, that but om all quemtities of fat are found in them until this period of functional activity has ceased. On the other hand the album inous nature of their plasma andits finely-granular appearance indicates that a material is here in progress of preparation, which is to be rendered subservient to the formative operations. Jome authors supprose that these organs are concerned, like the absorbent glands, in supplying

the germs of those cells, that form blood corpuscles, and there are many facts that lend it considerable probability. Hence it seems that while the plasma of the blood is taken up by these bodies, a supply of new corpuscles is formed by them at the same time

Monchocele, Goitre or Isby shire neck, as it is variously termed, is a hyper-trophied condition of one or both lobes of this gland. Its increase is gradual and it of ten requires years to produce any considerable bulk. It may be so large as to project considerably beyond the chin and instances are recorded where the tumorextended almost to the middle of the chest. In the frist stages of the disease the tumor is soft, clastic and sponyy to the

touch. The integrement is movable and of its normal color. In the aelvance Ed stages of the disease, however, the tromor becomes more firm, and in some Severe cases, some parts of the tumor become dense and firm while the other parts retein their soft and spongynature. The tumor is free from pain or even tenderness, in its early stages and in Those of moderate size alnays so. But in the majority of cuses where the tumor becomes large and firm, darting pains are felt at times passing through it. Tometimes the skin assumes a red or copper color and the cervical veins become large and turgiel. While the tumor remains soft and of moderate size little or no inconvenience is experienced,

but when large and hard it causes more or less difficulty of snallowing and breathing and affects the cleaness of the voice, When the internal extension is considerable, pressure may be made upour the arteries and veins causing palpita. tion of the hourt, attended nith greatans. ity, throbbing of the curotides and dangerous and even fatal congestion of the brein. The progress of the tumor is gen. erally gradual but it is sometimes diable to great irregularities, remaining for a long time stationary, then rapid by growing for a short time, again remain. ing stationary or decreasing until it a. gain, rupielly increases beyond its former size. In many places where No ronchocele prevails indemically more expe-

cially, in the vallies of the etlps, the disease, most frequently, attackes aclass of persons, called breting, who arestunt ed in growth, have enormous heads and amarked degree of mental turpitude, amounting, in some instances, to absolute idiocy. Honever, Brouchocele has no connection with this impairment of the morel and physical constituhow, for in many polerces where it is prevalent, the development of the mind is not prevented by the dis-Euse or its enderic cause. Yet, where Ortinism prevails, ne are led to believe, that they are attributable to some common cause. The internal structure and nature of the tumor is different in its various stages of developement.

At first, these terrors consist of a ge. latinous mass or of a cellular structure containing a glutinous pluid. Tometimes they exhibit a soft and sprongy Structure with large cavities or cysts, containing a serous fluid. Old trums contain ossified or curtilaymous masses imbedded in an adiposestile matter, and in some cases the tumor is filled with dark blood. Sometimes they consist of a number of cysts filled with a visciel transparent placed. Often the whole gland resembles a relicerous or steatomators turner and sometimes it is a collection of varicose veing. Active inflammation, relaration of supopuration very revely attend this disease unless produced by External myrry or irrelating apoplications.

An some few cases the lumor has taken on sprontaneous supopuration and produced an entire cure; but other cases of supopuration have involved parts that have produced death, such as the hacken, causing Asphysia.

Chiology

As i most prevalent in the vallies of the alfs and appearings. It is not confined to any age or sex, but is more common among females than males nor is it confined to the human species, alone, but is often met with in sheep, horses and homed cattle. Cold neather allevates the disease. Concerning the remote causes, a great variety of ofmions have been advanced but our real knowledge is

confined to a very few general facts and folansible conjectures. It has been sufaforsred that nater impregnated with Calcarea mas the cause of it, but this opinion has prov-Ed musuhisfactory, because Bronchocele is generaled in some districts where no Calcureous deposits, in the nature, can be found, and again where there are large deposits of balcareous matter in the waters Browchocile has never been known. Inother opinion is that snow nater has a tendency to produce it, but this theory is refuted by the fact that in some places where snow nater is the only water drunk Hownchocele is not known and in other districts where snow and ice are never sun, this disease forwards extensively. Many authors have supposed that certain articles

or modes of diet may produce it, but this is also controverted by the fact, that in contiguous districts, where the habits. modes of troing and articles of dietamong The people are the sense, one district may be in fected by this disease, while the others are sutirely free from it. There are many advocates of the belief that the causes are in the atmosphere. The idea of the density or humidity of the atmosphere, being the exciting cause, is refuted by the fact, that it prevails both, in deep damp vallies and in elevated places, where the air circulates freely and is not loaded, either nith huandity or paludal exhalations, and in a rust number of deep damp vallies, where The air is stagnant and loaded . The marshy whalatrons, this disease is not

Known. I Cumboldt mas of the opinion that a nant of electricity nas concerned in its production, which opinion he sustains by a number of experiments and facts. The abuse of vinous liquors, The repulsion of cutamons diseases and mechanical injuries of the Thy roid body have been given as causeg. Oberle is of the opinion that the maters of goitrous districts contain the germs of the disease and relates many facts to sustain his position. Dr Coventry contends that the naters of Godsons districts contain blum. ina. He says in regard to some experments, "The surface of the schist, after having been acted upon by the air, becomes covered with a white efflores-

cluce, which reprove examination is found to be Alum. In certaindis. tricks where Hum is manufactured, although elevated and very dry Brouchocele is prevalent. De Gibson impolies that the disease arises immediately from the obstruction of the Fracheo-thy widal foursages of Borden, of the openings be theen the succulus larynais and the Thyrid body and of other passages, with which we are unac querited, which he substantiates, by dissections of the Thyroid body, in its diseased and natural state. Todine has been discovered in the waters of Some gottrong districts, and, it is sup. prosed, that its use will produce hy poertrophy of this gland.

Diagnosis Bronchocele can be distinguish. ed from encysted and other tumors, by its shape, its want of fluctuation and by its mostly affecting both sides. The goitrous turnor accompanies the motions of the luryngs and trucked, in the act of smallowing; This may serve to distin. guish between it and amerism of the curoted arteries, dilutation of the interneel jugular veins, and sercoma of the Truchen or neighboring glands. The goit. row tumor is wholly insensible, soft and sponey to the touch and free frompuls. ation. Then, however, the disease is of one lobe and his directly over the carotid astery, a pulsation is given to the tumor by the artery and may render the diag-

nosis difficult, but here the presence or absence of the annerismal thrill millsine as a guide; the position will distinguish it from Frotalow enlargements of the glands of the neck, and the firmers. and greater promeness of these glands to active inflammation and sufficiention. Another mark of difference behieveit and dilitation of the internal jugular vein is the roftness and compressibility of the venous humor and its sudden seture to its former size when the Just. sure is removed from it-

The fratuent beging and the lumin of recent origin and reft the prognosis will usually be foursable to a cure, but if the tumer be old and hard and

The pratient advanced in life the progne. sis will at best he nucerlain if not un favorable to an entire cure.

Treatment.

All physicians amile upon Podine or Spongia tosta as specific to This disease. Allopathic dose, not suffice. untly large to affect the stomach or the general health. Comoe of athic dose, according to the predilection of the pracethorn from the crude material to the highest preparations, where traces of the remedies become lost to the chemist, but still live and speak, beautifully to examplify the law of the infritedi. visibility of matter and the sale lary Effects of the most minute drug doses upon the human system. Podinemill

usually be found better in the higher attennations, as its volatile nature admits of the loss of its power when kept in the lower preparations. The medicin al Jones of Mongia are more easily retained in the lower attenuations than those of Lodine, and some, on this account prefer the Spongia. Defrie and Thya will be found of service when the superficial very upon the tremor, become varicose and painful! "Selladonna, when the difficulty is of an acute nature and arisis from taking cold. Aconite, when the tumor arises from a cold, is attended with high fever and the skino upon the tumor is red and inflamed. Filicia and Mercurins, where symptoms of suppuration have

appeared, There are various other remedies laid down in the books for the various symptoms of this disease, but if the foregoing remedies are not sufficient for the cure of it, other means will have to be called into requisition to arrest its Jorogress Surgicul operations. There are three operations which have been proposed and triedfut I am not anare that any herve been successful in producing a cure. These operations are the introduction of Letous; Extripation of the gland and ligature of the arteries that supply it. The Tetou, if used, should be of silkand of a sufficient size to prevent hemorrhage from the wound made by the needle.

Great cary both before and after therese of the needle to avoid influencation, this operation is not only hazardous to life, but seldom produces the desired effect, and should never be resorted to. The superior Thyroid arteries are tred at their origin from the External curotids as they lie more superficially there than nearer to the Thy wied body. Themferior arteries should be tred at their origen from the Subclavian arteries, that being the most convenient point of ac. cess. Extirpration is performed by make ing an incision in the messal line of the neck; dissecting it from the skin and muscles and tying every artery assoon as it is divided. Then, as it is most of ten, Enlargement of the isthmus or middle

lobe, that needs this operation, a strong double ligature should be prassed through it and firmly tied on each side of it before it is cut out. Happily, this disease which so often buffles the Skill both of the Physicianund Turgeon is rease in this country.